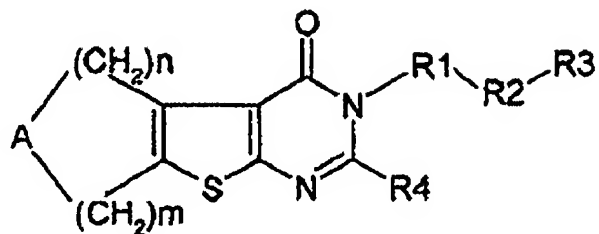


# Amendments to the Claims

1. (Original) A compound of the formula (I)



in which

A is O, S, SO, NR5 or CH2;

R5 is H, C<sub>1-5</sub>-alkyl, aryl, aralkyl, acyl or alkoxycarbonyl;

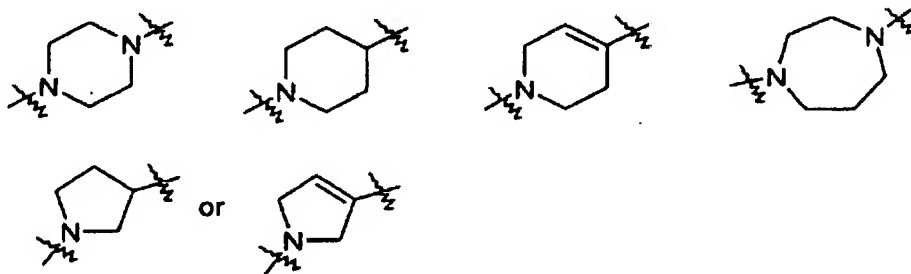
R4 is H or methyl;

n is 1 or 2;

m is 1 or 2;

R1 is C<sub>1-8</sub>-alkylene;

R2 is a group of the formula

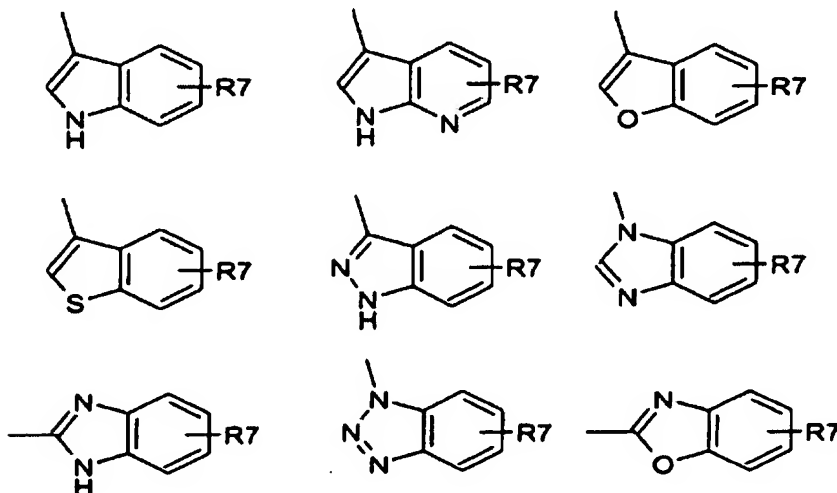


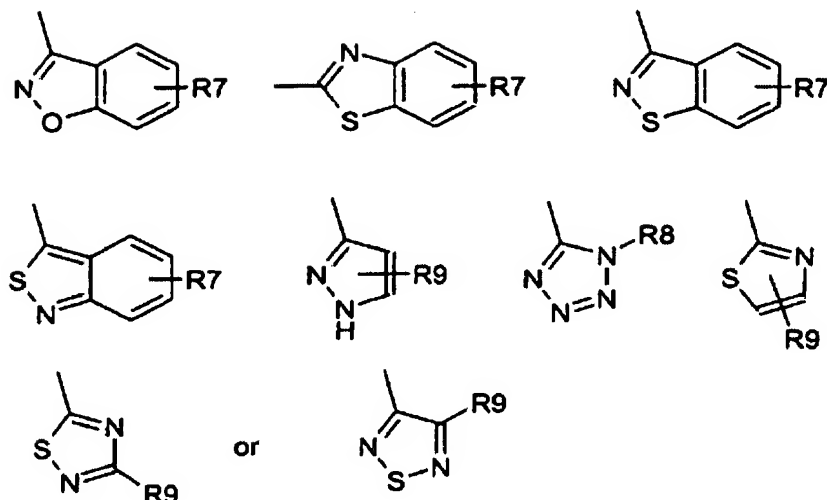
R3 is 5-membered heteroaryl which may be fused to an aryl or heteroaryl radical, where the heteroaryl and, optionally, the fused aryl or heteroaryl radical may have 1, 2 or 3 substituents selected independently of one another from C<sub>1-5</sub>-alkyl, C<sub>1-5</sub>-alkoxy, C<sub>1-5</sub>-alkylthio, halogen, CN, halo-C<sub>1-5</sub>-alkyl, halo-C<sub>1-5</sub>-alkoxy, hydroxy -NH<sub>2</sub>, -N(R6)<sub>2</sub>, -NH(R6), aryl, aryloxy, aralkyl, aralkyloxy and heteroaryl, where the substituents aryl, aryloxy, aralkyl, aralkyloxy and heteroaryl may have 1, 2 or 3 substituents selected

independently of one another from C<sub>1-5</sub>-alkyl, C<sub>1-5</sub>-alkoxy, C<sub>1-5</sub>-alkylthio, halogen, CN, halo-C<sub>1-5</sub>-alkyl, halo-C<sub>1-5</sub>-alkoxy, hydroxy, -NH<sub>2</sub>, -N(R<sub>6</sub>)<sub>2</sub> and -NH(R<sub>6</sub>); and the radicals R<sub>6</sub> are independently of one another C<sub>1-5</sub>-alkyl, and physiologically tolerated salts thereof.

2. (Original) The compound according to claim 1, wherein R<sub>3</sub> is 1H-indol-3-yl, 1H-pyrrolo[2,3-b]pyridin-3-yl, 1-benzofuran-3-yl, 1-benzothien-3-yl, 1H-indazol-3-yl, 1H-benzimidazol-1-yl, 1H-benzimidazol-2-yl, 1H-benzotriazol-1-yl, 1,3-benzoxazol-2-yl, 1,2-benzisoxazol-3-yl, 1,3-benzothiazol-2-yl, 1,2-benzisothiazol-3-yl, pyrazol-3-yl, 1H-tetrazol-5-yl, 1,3-thiazol-2-yl or 1,2,4-thiadiazol-5-yl, which may have 1, 2 or 3 substituents selected independently of one another from C<sub>1-5</sub>-alkyl, C<sub>1-5</sub>-alkoxy, halogen, CN, SCH<sub>3</sub>, trifluoromethyl, hydroxy, -N(C<sub>1-5</sub>-alkyl)<sub>2</sub>, -NH(C<sub>1-5</sub>-alkyl), -NH<sub>2</sub>, aryl, aryloxy, aralkyl, aralkyloxy and heteroaryl, where the substituents aryl, aryloxy, aralkyl, aralkyloxy and heteroaryl may have 1, 2 or 3 substituents selected independently of one another from C<sub>1-5</sub>-alkyl, C<sub>1-5</sub>-alkoxy, halogen, CN, SCH<sub>3</sub>, trifluoromethyl, hydroxy, -N(C<sub>1-5</sub>-alkyl)<sub>2</sub>, -NH(C<sub>1-5</sub>-alkyl) or -NH<sub>2</sub>.

3. (Previously Presented) The compound according to claim 2, wherein R<sub>3</sub> is a radical of the formula

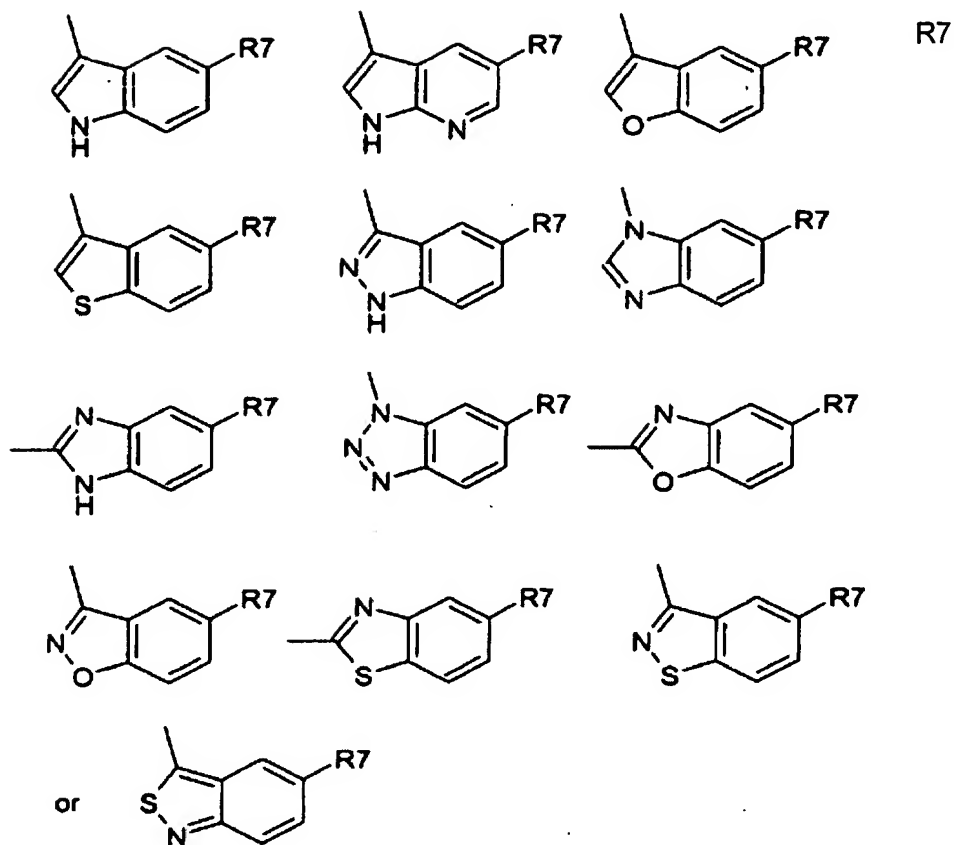




in which

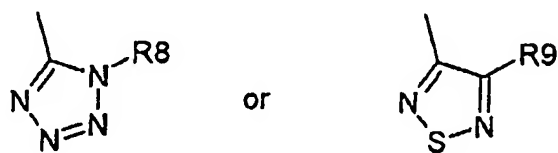
- R7 is H, C<sub>1-5</sub>-alkyl, C<sub>1-5</sub>-alkoxy, C<sub>1-5</sub>-alkylthio, halogen, CN, halo-C<sub>1-5</sub>-alkyl, halo-C<sub>1-5</sub>-alkoxy, hydroxy, -NH<sub>2</sub>, -N(R6)<sub>2</sub> or -NH(R6); and
- R8 is H, C<sub>1-5</sub>-alkyl, aryl, aralkyl or heteroaryl;
- R9 is H, C<sub>1-5</sub>-alkyl, C<sub>1-5</sub>-alkoxy, C<sub>1-5</sub>-alkylthio, halogen, CN, halo-C<sub>1-5</sub>-alkyl, halo-C<sub>1-5</sub>-alkoxy, hydroxy, -NH<sub>2</sub>, -N(R6)<sub>2</sub>, -NH(R6), aryl, aryloxy, aralkyl, aralkyloxy or heteroaryl, where aryl, aryloxy, aralkyl, aralkyloxy or heteroaryl may have 1, 2 or 3 substituents selected independently of one another from C<sub>1-5</sub>-alkyl, C<sub>1-5</sub>-alkoxy, C<sub>1-5</sub>-alkylthio, halogen, CN, halo-C<sub>1-5</sub>-alkyl, halo-C<sub>1-5</sub>-alkoxy, hydroxy, -NH<sub>2</sub>, -N(R6)<sub>2</sub> and -NH(R6); and the radicals
- R6 have the meaning indicated in claim 1.

4. (Original) The compound according to claim 3, wherein R3 is a radical of the formula



in which R7 is as defined in claim 3.

5. (Original) The compound according to claim 3, wherein R3 is a radical of the formula

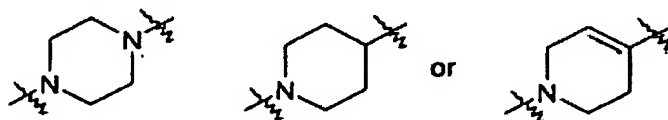


where R8 and R9 are as defined in claim 3.

6. (Previously Presented) The compound according to claim 4, wherein R7 is H, C<sub>1</sub>-5-alkyl, preferably methyl, halogen or halo-C<sub>1-5</sub>-alkyl.

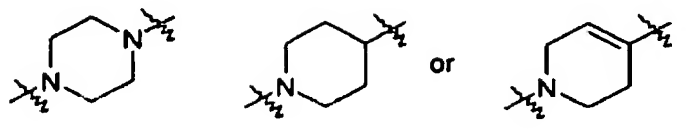
7. (Previously Presented) The compound according to claim 5, wherein R8 is C<sub>1-5</sub>-alkyl or aryl.

8. (Previously Presented) The compound according to claim 5, wherein R9 is C<sub>1-5</sub>-alkoxy, aryl which may be substituted, or heteroaryl.
9. (Previously Presented) The compound according to claim 1, wherein A is O, S or NR<sub>5</sub>, where R<sub>5</sub> is as defined in claim 1.
10. (Original) The compound according to claim 1, wherein R<sub>4</sub> is hydrogen.
11. (Original) The compound according to claim 1, wherein n is 2 and m is 1 or n is 1 and m is 2.
12. (Original) The compound according to claim 1, wherein R<sub>1</sub> is eth-1,2-ylene, prop-1,3-ylene, prop-1,2-ylene, 2-methyl-prop-1,3-ylene, but-1,2-ylene or but-1,3-ylene.
13. (Original) The compound according to claim 1, wherein R<sub>2</sub> is a group of the formula



14. (Original) The compound according to claim 1, wherein
- R<sub>4</sub> is hydrogen;
- n, m are 2, 1 or 1, 2;
- R<sub>1</sub> is eth-1,2-ylene, prop-1,3-ylene, prop-1,2-ylene, 2-methylprop-1,3-ylene, but-1,2-ylene or but-1,3-ylene;

R2 is a group of the formula



and

R3 is as defined in claim 1;

15. (Original) The compound according to claim 14, namely

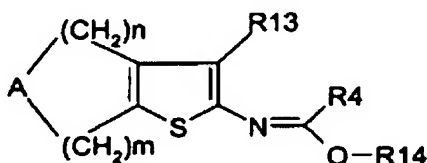
3-substituted 5,6,7,8-tetrahydropyrido[4',3':4,5]thieno[2,3-d]pyrimidin-4(3H)-one derivatives;

3-substituted 3,5,6,8-tetrahydro-4H-pyrano[4',3':4,5]thieno[2,3-d]pyrimidin-4-one derivatives, or

3-substituted 3,5,6,8-tetrahydro-4H-thiopyrano[4',3':4,5]thieno[2,3-d]pyrimidin-4-one derivatives.

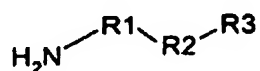
16. (Currently Amended) A process for preparing a compound according to claim 1

a) by reacting a compound of the formula (II)

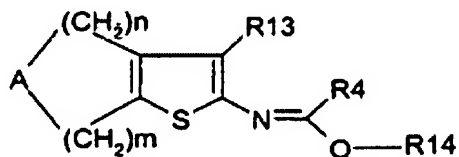


in which A, n, m and R4 have one of the meanings indicated in claim 1; R13 is CN or C,-3-alkyl-O-CO-, and R14 is C1.3-alkyl,

with a primary amine of the formula (III)



in which R1, R2 and R3 have one of the meanings indicated in claim 1, and isolating and, optionally, converting the resulting compound into a physiologically tolerated salt thereof, or b1) by reacting a compound of the formula (II)

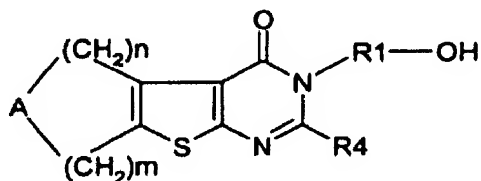


in which A, n, m and R4 have one of the meanings indicated in claim 1; R13 is CN or C<sub>1-3</sub>-alkyl-O-CO-, and R14 is C<sub>1-3</sub>-alkyl, with a primary amine of the formula (IV)



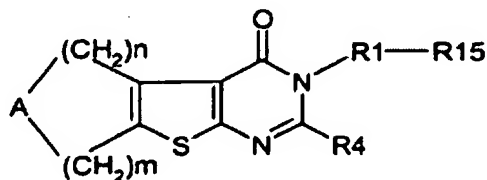
in which R1 has one of the meanings indicated in claim 1;

b2) reacting the resulting compound of the formula (V)



in which A, n, m, R4 and R1 have one of the meanings indicated in claim 1, with a halogenating agent such as thionyl chloride; and

b3) reacting the resulting compound of the formula (VI)



in which A, n, m, R4 and R1 have one of the meanings indicated in claim 1, and R15 is halogen,

with a secondary amine of the formula (VII)

H—R2—R3

in which R2 and R3 have one of the meanings indicated in claim 1,  
and isolating and, optionally, converting the resulting compound into a physiologically  
tolerated salt thereof.

17. (Canceled).

18. (Original) A pharmaceutical composition comprising at least one compound  
according to claim 1 and physiologically acceptable aids.

19-21. (Canceled)

22. (Currently Amended) A The method for treatment of depression which comprises  
administering an effective amount of a compound according to claim 1 to an individual in  
need thereof ~~according to claim 19, where the disorder is depression.~~

23-28. (Canceled)